



## Safety Data Sheet Crystic VE 679-03PA

Updated April 2021

### 1. Identification of the Material and Supplier

Product Name:	Crystic VE 679-03PA
Product Code:	VE 679-03
UN Number:	1866
DG Class:	3
Shipping Name:	Resin Solution, Flammable
Packaging Group:	III
Hazchem Code:	3Y
Intended Use:	Lamination of GRP laminates
Company:	H S Composites Ltd
Address:	63 Hunua Road, Papakura, Auckland 2110
Telephone:	+64 (09) 295 2200
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Website:	www.hscomposites.co.nz

### 2. Hazard Identification

#### Regulatory Information:

Additives, Process Chemicals and Raw Materials (Flammable) Group Standard 2020 | HSR002495 | October 2020

HSNO Approval Number: HSNO002495

Dangerous Goods Class: 3

#### HAZARDOUS CLASSIFICATIONS

Flammable Liquid	Category 3
Acutely Toxic (Oral)	Category 4
Acutely Toxic (Inhalation)	Category 4
Skin Corrosion/Irritant	Category 2
Serious Eye Damage/Irritation	Category 2
Specific Target Organ Toxicity (Single Exposure narcotic Effects)	Category 3
Aquatic Toxicity (Chronic)	Category 3

Signal Word: **WARNING**

Pictograms:



Flammable



Irritant



Harmful



Aquatic Hazard

**HEALTH HAZARDS**

<b>H226</b>	<b>Flammable Liquid and Vapour</b>
<b>H302</b>	<b>Harmful if Swallowed</b>
<b>H315</b>	<b>Causes Skin Irritation</b>
<b>H319</b>	<b>Causes Serious eye irritation</b>
<b>H332</b>	<b>Harmful if inhaled</b>
<b>H341</b>	<b>Suspected of causing genetic defects</b>
<b>H351</b>	<b>Suspected of causing cancer</b>
<b>H361</b>	<b>Suspected of damaging fertility or the unborn child</b>
<b>H372</b>	<b>Causes damage to organs through prolonged or repeated exposure</b>

**ENVIRONMENT HAZARDS**

<b>H401</b>	<b>Toxic to aquatic life.</b>
<b>H411</b>	<b>Toxic to aquatic life with long lasting effects</b>
<b>H432</b>	<b>Toxic to terrestrial vertebrates</b>

**PRECAUTIONARY STATEMENTS****PREVENTION**

<b>P210</b>	<b>Keep away from ignition sources such as heat/sparks/open flame/hot surface. No smoking.</b>
<b>P233</b>	<b>Keep container tightly closed</b>
<b>P240</b>	<b>Ground/bond container and receiving equipment</b>
<b>P241</b>	<b>Use explosion proof equipment</b>
<b>P242</b>	<b>Use only non-sparking tools</b>
<b>P243</b>	<b>Take precautionary measures against static discharge</b>
<b>P260</b>	<b>Do not breathe vapours</b>
<b>P264</b>	<b>Wash hands and exposed skin thoroughly after handling</b>
<b>P270</b>	<b>Do not eat, drink or smoke when using this product</b>
<b>P271</b>	<b>Use only outdoors or well-ventilated areas</b>
<b>P273</b>	<b>Avoid release into the environment</b>
<b>P280</b>	<b>Wear protective clothing, gloves and eye protection</b>
<b>P281</b>	<b>Use personal protective equipment as required</b>

**RESPONSE**

<b>P101</b>	If medical advice is needed, have product container or label at hand If
<b>P301 + P312</b>	swallowed call POISON CENTRE or DOCTOR if you feel unwell
<b>P301+P330</b>	<b>IF SWALLOWED: Rinse out mouth, do not swallow water, DO NOT induce vomiting.</b>
<b>P302 + P352</b>	If on skin, wash with plenty of soap and water
<b>P332 + P313</b>	If skin irritation occurs, get medical advice
<b>P362</b>	<b>Take off contaminated clothing and wash before reuse</b>
<b>P304 + P340</b>	If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing.
<b>P312</b>	<b>Call POISON CENTRE or DOCTOR if you feel unwell</b>
<b>P305 + P351</b>	If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so, continue to rinse
<b>P337 + P313</b>	If eye irritation persists seek medical advice
<b>P308 + P313</b>	If exposed or concerned seek medical advice
<b>P314</b>	<b>Get medical advice if you feel unwell</b>
<b>P370 + P378</b>	In case of fire use water fog, foam, dry chemical or carbon dioxide (CO <sub>2</sub> ) to extinguish
<b>P391</b>	<b>Collect any spillage</b>
<b>P370+P378</b>	<b>In case of fire: Use appropriate media for extinction.</b>

**STORAGE**

<b>P403+P233</b>	<b>Store in a well-ventilated place. Keep container tightly closed.</b>
<b>P235</b>	<b>Keep cool.</b>
<b>P210</b>	<b>Keep away from heat/sparks/open flames/hot surfaces. – No smoking.</b>
<b>P405</b>	<b>Store in a locked area</b>

**DISPOSAL**

<b>P501</b>	Dispose of product and packaging in accordance with local and Governmental regulations
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Dangerous Goods Classification 3

Packing Group III

Hazchem Code 3Y

**3. Composition / Information on Ingredients**

Component	Cas No	Proportion
Styrene	100-42-5	40 - 45%
Cobalt Octoate	68409-81-4	<0.2%
N, N-Dimethylaniline	121-69-7	<0.2%

**4. First Aid Measures**

For advice, contact the National Poisons Centre  
(Phone New Zealand: 0800 764 766) or a doctor.

If seeking medical attention show this Safety Data Sheet to the Doctor in attendance.

**Inhalation:** Move the person to fresh air immediately. Begin artificial respiration if breathing has stopped and get immediate medical assistance. Do not use mouth to mouth method if the victim has ingested or inhaled the substance, give artificial respiration with the aid of a pocket mask. If breathing is difficult only trained personnel should administer oxygen. Get immediate medical attention. Keep warm and at rest until recovered. Get medical advice if person feels unwell or is concerned.

**Skin Contact:** If skin contact occurs, remove contaminated clothing and wash skin with soap and water. It may cause an allergic skin reaction, if skin irritation develops or persists, get medical advice. Launder contaminated clothing before re-use.

**Eye Contact:** Rinse immediately with plenty of water also under the eyelids keeping them apart and flush the eye continuously with running water for at least 15 minutes. Remove contact lenses after 5 minutes if present, and easy to do. Continue flushing. Get immediate medical advice/attention if irritation persists.

**Ingestion:** If swallowed, DO NOT induce vomiting. Rinse mouth. Get immediate medical attention. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth.

**Protection for First-Aider:** Ensure that those giving assistance and medical personnel are aware of the materials involved, take precautions to protect yourself or any other personnel from contamination. Use PPE if required.

**First Aid facilities:** Provide eye baths and safety showers close to areas where splashing may occur.

**Note to Doctor/Physician:** Treat symptomatically. If a corrosive material, then the use of gastric lavage or emesis may be required.

**5. Fire Fighting Measures**

**Flammable liquids and vapours:** Shut off product that may 'fuel' a fire if safe to do so. Remove all persons from the immediate area, allow only trained personnel to attend a fire in progress, provide fire fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

**Suitable extinguishing media:** Water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>).

DO NOT use straight jet streams of water.

**Hazards from combustion:** Keep product and empty containers away from heat and sources if ignition. Run off from the fire area may create fire or an explosion hazard. In the event of a fire Keep surrounding containers cool by spraying with water. When burning the product may give off Smoke, fumes, metal oxides, carbon dioxide and carbon monoxide and incomplete combustion products. **Precautions for fire fighters and special protective equipment:** Full protective clothing and self-contained breathing apparatus with a full-face piece. Move other containers from the area if safe to do so without risk to yourself or others.

**Hazchem Code:** 3Y

Styrene will polymerise at elevated temperatures. If this occurs in a closed container there is a serious risk of violent rupture.

**SPECIAL FIREFIGHTING PROCEDURES.**

Fight like a fuel-oil fire. Water used in fire-fighting should not be allowed to enter drainage systems or contaminate soil.

<b>6. Accidental Release Measures</b>
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Steps to be taken if the material is released or spilled.

Wear the correct Personal Protection Equipment. See section 8 for requirements.

Stop leakage if safe to do so, do not put yourself in a position of harm or danger.

Eliminate all sources of ignition (flames, hot surfaces, electrical, static or frictional sparks).

Evacuate immediate area. Ventilate the surrounding area. Do not walk in spillage.

Contain the area of spillage, do not touch damaged containers unless wearing the correct PPE. If safe to do so material can be collected and placed in a container for disposal. Absorb remainder on the floor with sand, vermiculite or other non-combustible material. Place collected material in a closed container that is suitable for that product and label for disposal.

Prevent contamination of storm-water drains and waterways.

Waste disposal method. Destroy by liquid incineration with off-gas scrubber.

Contaminated absorbent to be disposed of in accordance with appropriate local or governmental regulations.

Correctly label all material containers to be disposed of and supply copy of SDS for that product.

Liquid material mixed with the appropriate hardener should be allowed to gel and cool before disposal as solid waste in accordance with appropriate local or national regulations or through a registered waste disposal plant.

<b>7. Handling and Storage</b>
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Wear correct PPE equipment when using material. Avoid inhalation of vapour and contact with skin, eyes and clothing. Use only with adequate ventilation.

Keep away from children.

Wash skin with soapy water, launder contaminated clothing before re-use.

Wash hands thoroughly after handling the product, before breaks and before eating.

This product is flammable. Isolate from all potential sources of ignition do not open near open flame, sources of heat or ignition, **NO SMOKING.**

Store in a locked and bunded area or approved flammable goods store away from direct heat (ideally below 25°C to prevent spoilage) and well ventilated. Keep containers tightly closed when not in use. Open drums slowly in case of internal pressure.

Store separate from oxidising materials, peroxides and metal salts.

<b>8. Exposure Controls / Personal Protective Equipment (PPE)</b>
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Workplace Exposure Limit: Worksafe 2020

Component	Cas No	TWA
Styrene	100-42-5	20ppm

Use general dilution or local exhaust ventilation to maintain vapour concentration below WES level in the work place. If concentrations exceed exposure limit use organic vapour canister mask or approved air-line mask.

**Skin Protection:** Wear overalls or other work clothing providing arm and leg cover. Use protective gloves (PVC, Latex or Nitrile as required for that product).

**Eye Protection:** Safety goggles or splash mask.



## 9. Physical / Chemical Properties

Physical Description & colour:	Viscous Liquid
Odour:	Aromatic solvent
Boiling Point:	50 - 150°C
Flammable Liquid Flash Point:	32°C
Evaporation Rate:	Not Available
Flammable Limits:	
LEL (lower explosive limit)	1.1%
UEL (upper explosive limit)	6.1%
Specific Gravity:	1.1 – 1.2
Percentage of Volatiles:	
Water Miscibility:	Immiscible (will not mix with water)
Marine Pollutant:	Yes

## 10. Stability and Reactivity

<b>Stability:</b>	<b>Under normal working conditions, good ventilation and providing the correct personal protection is worn then there should be no adverse effects.</b>
<b>Conditions to avoid:</b>	<b>Exposure to sunlight, open flames, contamination and prolonged storage above 25°C.</b>
<b>Materials to avoid:</b>	<b>Strong acids, peroxides, other oxidising agents, transition metals e.g., copper and zinc, their alloys and galvanised items.</b>
<b>Hazardous Polymerisation:</b>	<b>May occur as result of high temperature or contamination, if burned, these products will evolve black, acrid smoke along with carbon monoxide, carbon dioxide and various organic compounds.</b>

## 11. Toxicological Information

When used under properly controlled conditions with adequate ventilation, within workplace exposure limits and with adequate protective equipment, no adverse health effects are to be expected.

**Acute effects of over exposure:**

**Inhalation of Vapour:** In high concentrations vapours may irritate the throat, respiratory system and cause coughing. Harmful by inhalation.

**Eye Contact:** Is irritating to the eye, can cause redness and stinging pain.

**Skin Contact:** Acts as a defatting agent on skin, repeated exposure to the skin may cause cracking and/or dermatitis, harmful and irritating to the skin.

**If Swallowed:** Can cause gastrointestinal symptoms which may cause stomach upset.

**Chronic effects of overexposure:**

Mild dermatitis may result from prolonged or repeated skin contact. Styrene can be absorbed through the skin. Seek medical advice

Excessive exposure to the liquid material or vapour may affect the central nervous system, the liver, kidneys and respiratory system.

<b>12. Ecological Information</b>
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Prevent these products from entering storm-water drains sewers or waterways.

Styrene is the major contaminant hazard in these formulations and it will undergo slow (but near complete) biodegradation in contact with soil. Styrene vapour degrades rapidly in the atmosphere.

Styrene floats on water and will vaporise and biodegrade.

Toxic to aquatic organisms.

H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects
H432	Toxic to terrestrial vertebrates

<b>13. Disposal Considerations</b>
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**Waste Disposal:** Small quantities of these products may be mixed with appropriate amounts of polymerization initiators (catalyst) and allowed to cool and solidify before disposal as solid waste. Recover or recycle if possible.

This material and its container must be disposed of as hazardous waste.

Any disposal must be labelled (See section 14) as such and comply with applicable local, regional and national regulations. Ensure that these materials do not enter drains, sewers or waterways. Ensure that empty packaging is managed in accordance with Dangerous Goods and HSNO regulations.

P501	Dispose of product and packaging in accordance with local regulations
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<b>14. Transport Information</b>
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UN Number:	1866
Proper Shipping Name:	Resin Solution, Flammable
Description:	Viscous Liquid
Hazchem Class:	3
Hazchem Code:	3Y
Packing Group:	III
IMDG Code:	3

**Tunnel Restriction:** D  
**ERG Code:** 127  
**EMS Code:** F-E, S-E  
**Environmental Hazard:** Marine Pollutant – Yes

### 15. Regulatory Information

EPA New Zealand HSNO approval code HSR002495

NZ Inventory of Chemicals – Complies

Ozone Depleting Substance – Not Available

**SDS** To be available within 10 minutes when required.

A current Location Compliance Certificate is required for this product when storing quantities over the following quantity.

Hazard Classification HSNO number	Product	Quantity more than
HSR002495	Resin Solution, Flammable	500ltr

Websites that will be of assistance regarding Hazardous

Substances: <https://www.hazardoussubstances.govt.nz/calculator>

<http://www.hazardoussubstances.govt.nz/>

<https://www.worksafe.govt.nz/topic-and-industry/hazardous-substances/guidance/hazardous-substances-that-activate-key-safety-controls/>

### 16. Other Information

This SDS contains only safety-related information. For other data see product information literature.

**Fire/Ambulance/Police NZ** 111  
**Cas #** Unique number identifier of chemical substance information  
**STEL** Short term exposure limit, maximum airborne concentration to which a worker may be exposed to in any 15-minute period, provided the TWA is not exceeded  
**TWA** Time Weighted Average, maximum exposure allowed in an 8-hour period  
**UN Number** United Nation Number assigned to Dangerous Goods  
**EPA** Environmental Protection Agency  
**IMDG** International Maritime Dangerous Goods Class Code  
**LEL** Lower explosive limit  
**UEL** Upper explosive limit  
**ppm** parts per million



<b>mg/m<sup>3</sup></b>	<b>milligrams per cubic mtr</b>
<b>EMS</b>	<b>Emergency response for shipping</b>
<b>ERG</b>	<b>Emergency code for first responders</b>
<b>Other References</b>	<b>Manufacturers/Supplier SDS's</b>

**Review: April 2021**

**Reason: Updates, pictograms & GHS Coding**

**Disclaimer: The information given in this safety data sheet is given in good faith and is believed to be valid and accurate at the time of publication. However, no responsibility is accepted for accident or injury which may occur from omissions or from information contained in the data sheet.**

**HS Composites 04/21**